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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/911,170	07/23/2001	Hiroshi Kobayashi	10873.769US01	2611

7590 04/17/2003

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EXAMINER

QUARTERMAN, KEVIN J

ART UNIT	PAPER NUMBER
2879	

DATE MAILED: 04/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/911,170	KOBAYASHI ET AL.
	Examiner Kevin Quarterman	Art Unit 2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 04 March 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-5 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-5 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.

4) Interview Summary (PTO-413) Paper No(s) _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____.

DETAILED ACTION

Response to Amendment

1. Applicant's Amendment A, filed 04 March 2003, has been entered and overcomes the objection to the title.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Ko (US 6097142).

4. Regarding independent claim 1, Figure 6 of Ko shows a shadow mask for a cathode ray tube having an effective area (100) in which a plurality of aperture lines having a plurality of apertures are arranged via a bridge, and a dead space (102) formed on both outer sides of the effective area in a direction perpendicular to a direction in which the aperture lines are directed, wherein a slit extending along the aperture line is formed in the dead space and has a lengthwise direction that coincides with the direction in which the aperture lines are directed.

5. Regarding claim 2, Figure 6 of Ko shows a width of the slit in the direction perpendicular to the direction in which the aperture lines are directed being from

45% to 100% of a width in the same direction of the aperture adjacent to the dead space.

6. Regarding claim 3, Figure 6 of Ko shows a length of the slit in the direction in which the aperture lines are directed being equal to or longer than a length in the same direction of the aperture adjacent to the dead space.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ko in view of Aibara (US 6175185).

9. Ko discloses the claimed invention except for the slit having inclined faces opposed to each other.

10. Figures 5-7 of Aibara teach that it is known in the art to provide a shadow mask with slits having inclined faces for preventing unnecessary images from being formed on a fluorescent film (col. 2, ln. 42-44).

11. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the shadow mask of Ko with slits having inclined faces, as taught by Aibara, for blocking electron beams from entering the dead space.

12. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ko in view of Barbin (US 3766419).

13. Ko discloses the claimed invention but fails to exemplify the cathode ray tube having an electron shield.

14. Figure 3 of Barbin teaches that it is known in the art to provide cathode ray tubes with an electron shield (38) for preventing electrons from impinging on the periphery of the shadow mask.

15. Therefore, it would have been obvious to one having ordinary skills in the art at the time the invention was made to provide the cathode ray tube of Ko with an electron shield, as taught by Barbin, for blocking electron beams from reaching the dead space of the shadow mask.

Conclusion

16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Thompson-Russell (US 4859901) discloses a color CRT shadow mask with wrinkle-free corners. Ohtake (US 5128224) discloses an aperture pattern printing plate. Ko (US 6140754) discloses a shadow mask structure for a flat cathode ray tube.

17. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

18. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quarterman whose telephone number is (703) 308-6546. The examiner can normally be reached on M-F (8-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (703) 305-4794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7382 for regular communications and (703) 308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Kevin Quarterman
Examiner
Art Unit 2879

kq 
April 8, 2003



Vip Patel
Primary Examiner
Art Unit 2879